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## Please amend claim 17 as follows:

/ x1.	(Twice	amended)	[The	system	as	recited	in	cla	im	7
comprisir	ng] <u>A sys</u>	stem for co	ntrollin	g the t	emp	erature	clim	ate	in	а
variable	temperat	ure occupa	nt seat	compris	ina	:				

an occupant seat having means for distributing temperature conditioned air through the seat to increase a seat occupant's thermal comfort;

at least one heat pump connected to the seat by an air conduit for providing temperature conditioning air to the seat, the heat pump comprising:

at least one thermoelectric module for temperature conditioning the air;

at least one fan for passing the temperature conditioned air through the seat to an occupant and for removing unwanted thermal energy from the thermoelectric module;

a controller for activating and regulating the operation of the thermoelectric module and fan of at least one heat pump independent of occupant input after a desired mode of operation has been selected;

means for automatically operating the controller to optimize system response, to provide maximum thermal comfort to the seated occupant, and to control cooling functions of the system to minimize occupant discomfort and adverse physiological response; and

an indicator switch attached to the seat to detect the presence of an occupant, the indicator switch being electrically connected to the controller.

Claim 18, line 1, delete "7" and replace with --17--.

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Please capcel claim 19.

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## Please amend claim 25 as follows:

/ 325. (Amended) [The system as recited in claim 19 wherein the occupant seat comprises] A system for controlling the temperature climate in a variable temperature occupant seat comprising:

an occupant seat comprising a seat bottom and a seat back portion each having means for distributing temperature conditioned air through the seat and directing it to an occupant;

a seat back heat pump for conditioning the temperature of the air and passing the air through an air conduit to the seat back, the seat back heat pump comprising a main exchanger fan and at least one thermoelectric module:

a seat bottom heat pump for conditioning the temperature of the air and passing the air through an air conduit to the seat bottom, the seat bottom heat pump comprising a main exchanger fan and at least one thermoelectric module:

a temperature sensor positioned in each heat pump;

a controller for automatically activating and regulating the speed of the main fans, and automatically selecting the mode of operation for the thermoelectric module in each heat pump;

means for automatically operating the controller to optimize system response, to provide maximum thermal comfort to the seated occupant, and to control cooling functions of the system to minimize occupant discomfort and adverse physiological response; and

an indicator for detecting the presence of an occupant, the indicator being electrically connected to the automatic [controlling] operating means.

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Please capcel claim 27

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Claim 28, line 1, delete "27" and replace with --33--.

## Please amend claim 33 as follows:

5 36. (Twice amended) [The method as recited in claim 27 comprising] A method for controlling the temperature climate in a variable temperature occupant seat, the method comprising the steps of:

activating at least one thermoelectric module to provide temperature conditioned air to be distributed through a variable temperature seat;

activating at least one electric fan for passing the temperature conditioned air through means inside of the variable temperature seat;

sensing a system temperature and relaying the temperature information to a controller;

automatically adjusting the electrical power to the thermoelectric module when the thermoelectric module is operated in a cooling mode and when the temperature of the temperature conditioned air is below a minimum cooling temperature a predetermined amount of time after the cooling mode has been selected; and

automatically activating each fan and each thermoelectric module by occupying the seat and automatically deactivating each fan and [each] the thermoelectric module by vacating the seat.

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Please amend claims 50 and 51 as follows:

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(Amended) [The system as recited in claim 1 further comprising] A system for controlling the temperature climate in a variable temperature occupant seat comprising:

an occupant seat having means to distribute temperature conditioned air through the seat and the temperature conditioned air through the seat for the purpose of increasing a seat occupant's thermal comfort:

at least one heat pump for providing temperature conditioned air, each heat pump being connected to the seat by an air conduit and including one or more fan and one or more thermoelectric module;

a controller for activating and regulating the operation of each heat pump to produce temperature conditioned air at a temperature and fan speed to maximize the thermal comfort of the seated occupant:

at least one temperature sensor for monitoring the operation of at least one heat pump, the temperature sensor being electrically connected to the controller;

means for automatically operating the controller to optimize system response, to provide maximum thermal comfort to the seated occupant, and to control heating and cooling functions of the system to minimize occupant discomfort and adverse physiological response; and

an indicator for detecting the presence of the seat occupant, the indicator being electrically connected to the controller.

/3. (Amended) [The system as recited in claim 1] A system for controlling the temperature climate in a variable temperature occupant seat comprising:

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an occupant seat having means to distribute temperature conditioned air through the seat and the temperature conditioned air through the seat for the purpose of increasing a seat occupant's thermal comfort;

at least one heat pump for providing temperature conditioned air, each heat pump being connected to the seat by an air conduit and including one or more fan and one or more thermoelectric module:

a controller for activating and regulating the operation of each heat pump to produce temperature conditioned air at a temperature and fan speed to maximize the thermal comfort of the seated occupant;

at least one temperature sensor for monitoring the operation of at least one heat pump, the temperature sensor being electrically connected to the controller; and

means for automatically operating the controller to optimize system response, to provide maximum thermal comfort to the seated occupant, and to control heating and cooling functions of the system to minimize occupant discomfort and adverse physiological response, wherein the means for automatically operating the controller reduces the cooling functions of the system when the temperature of the temperature conditioned air is below a minimum cooling temperature and after a maximum amount of time has passed since the system was placed in a cooling mode of operation.

Please amend claim 54 as follows:

// 54. [The system as recited in claim 7] A system for controlling the temperature climate in a variable temperature occupant seat comprising:



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an occupant seat having means for distributing temperature conditioned air through the seat to increase a seat occupant's thermal comfort:

at least one heat pump connected to the seat by an air conduit for providing temperature conditioning air to the seat, each heat pump comprising:

at least one thermoelectric module for temperature conditioning the air;

at least one fan for passing the temperature conditioned air through the seat to an occupant and for removing unwanted thermal energy from the thermoelectric module;

a controller for activating and regulating the operation of the thermoelectric module and fans of each heat pump independent of occupant input after a desired mode of operation has been selected;

means for automatically operating the controller to optimize system response, to provide maximum thermal comfort to the seated occupant, and to control cooling functions of the system to minimize occupant discomfort and adverse physiological response, wherein the means for automatically operating the controller reduces the cooling functions of the system when the temperature of the temperature conditioned air is below a minimum cooling temperature and after a maximum amount of time has passed since the system was placed in a cooling mode of operation.

Please cancel claims 55 and 56

Please amend claim 57 as follows:

(Amended) [The system as recited in claim 19] A system for controlling the temperature climate in a variable temperature occupant seat comprising:

 an occupant seat comprising a seat bottom and a seat back portion each having means for distributing temperature conditioned air through the seat and directing it to an occupant;

a seat back heat pump for conditioning the temperature of the air and passing the air through an air conduit to the seat back, the seat back heat pump comprising a main exchanger fan and at least one thermoelectric module;

a seat bottom heat pump for conditioning the temperature of the air and passing the air through an air conduit to the seat bottom, the seat bottom heat pump comprising a main exchanger fan and at least one thermoelectric module;

a temperature sensor positioned in each heat pump;

a controller for automatically activating and regulating the speed of the main fans, and automatically selecting the mode of operation for the thermoelectric module in each heat pump;

means for automatically operating the controller to optimize system response, to provide maximum thermal comfort to the seated occupant, and to control cooling functions of the system to minimize occupant discomfort and adverse physiological response, wherein the means for automatically operating the controller reduces the cooling functions of the system when the temperature of the temperature conditioned air is below a minimum cooling temperature and after a maximum amount of time has passed since the system was placed in a cooling mode of operation.